

ABSTRACT

A diagnostic method and a diagnostic agent for cancers such as human glioma and a therapeutic method and a therapeutic agent for cancers such as human glioma are provided by identifying tumor suppressor genes and oncogenes useful for diagnoses and treatment of cancers such as human glioma. Tumor suppressor genes such as RFX1 gene and BGT-1 gene and oncogenes such as HOXD9 gene are screened by comparing the degree of methylation of cytosine residues in CpG islands between genomic DNA derived from human glioma or human glioma cell lines and that derived from normal tissue. By targeting these tumor suppressor genes or oncogenes, cancers such as human glioma are diagnosed or treated.